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Transmitted herewith for filing under 37 CFR 1.53(b) is the

- patent application of
- continuation patent application of
- divisional patent application of
- continuation-in-part patent application of:

Inventor(s)/Applicant Identifier: Paul Gallagher, Steve Davis, Ivan Liu and Martin Hampton

For: SYSTEMS AND METHODS FOR IMPLEMENTING PERSON-TO-PERSON MONEY EXCHANGE

This application claims priority from each of the following Application Nos./filing dates:
09/639,014, filed 8/15/00,

the disclosure(s) of which is (are) incorporated by reference.

Please amend this application by adding the following before the first sentence: "This application is a continuation continuation-in-part of and claims the benefit of U.S. Provisional Application No. 60/_____, filed _____, the disclosure of which is incorporated by reference."

Enclosed are:

- 16 page(s) of specification
- 3 page(s) of claims
- 1 page of Abstract
- 10 sheet(s) of formal informal drawing(s).

An assignment of the invention to _____
 A signed unsigned Declaration & Power of Attorney

A signed unsigned Declaration.
 A Power of Attorney.

A verified statement to establish small entity status under 37 CFR 1.9 and 37 CFR 1.27 is enclosed was filed in the prior application and small entity status is still proper and desired.

A certified copy of a _____ application.
 Information Disclosure Statement under 37 CFR 1.97.

A petition to extend time to respond in the parent application.

Notification of change of power of attorney correspondence address filed in prior application.

**In view of the Unsigned Declaration as filed with this application and pursuant to 37 CFR §1.53(f),
 Applicant requests deferral of the filing fee until submission of the Missing Parts of Application.**

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PATENT APPLICATION
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PERSON MONEY EXCHANGE**

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SYSTEMS AND METHODS FOR IMPLEMENTING PERSON-TO-PERSON MONEY EXCHANGE

CROSS-REFERENCES TO RELATED APPLICATIONS

- This application is a continuation-in-part of U.S. Patent Application No. 09/639,014 (Atty. Docket No. 017887-005900), filed August 15, 2000, entitled "SYSTEMS AND METHODS FOR IMPLEMENTING PERSON-TO-PERSON MONEY EXCHANGE," the disclosure of which is hereby incorporated by reference in its entirety.

BACKGROUND OF THE INVENTION

The present invention relates generally to online financial transactions, and more particularly to systems and methods for effecting person-to-person online financial transactions.

As more and more individuals become connected to the Internet, the number of e-commerce transaction grows proportionately. Currently, typical e-commerce transactions require individuals to submit confidential information such as credit card information or other bank account information over the Internet to effect a transfer of funds. For example, each time an individual purchases a product from a different merchant over the Internet, the individual must typically submit confidential credit card information to the merchant to complete the purchase transaction. The more an individual transmits such confidential information over the Internet the more opportunity there is for that information to be compromised.

Additionally, it is often difficult for individuals to effect monetary transactions without ultimately having a check sent from the payor to the payee; credit card transactions are not widely available for individuals. For example, in the context of an auction where one individual wins a bid to purchase an item from another individual, the purchaser must usually send a check to the seller. Such transactions are generally undesirable as postage is necessary to send the check, and processing of the check is required. This generally results in an undesirable increase in the amount of time and effort required to complete the transaction.

Accordingly, it is desirable to provide systems and methods for effecting online financial transaction between individuals or between individuals and merchants without the need for sending and cashing checks or transmitting confidential information.

SUMMARY OF THE INVENTION

The present invention provides systems and methods for effecting online

- 5 financial transactions between individuals or between individuals and entities such as banks, merchants and other companies. The present invention is particularly useful for effecting person-to-person financial transactions.

According to the invention, each user accesses a fund exchange server to establish an online account, which is used to transfer funds to and from other entities' 10 online accounts. An online account is generally a stored value account representing funds held in an account for the user at an affiliated financial institution. Each account, whether an individual account or a corporate account, can have one or more sub-accounts associated therewith. To fund an online account, funds can be transferred to the online account from a funding account, e.g., credit card account, direct demand account (DDA), 15 checking or savings account, or other account, or from another online account. To withdraw funds, money can be transferred to a funding account. An account verification procedure requires that a user enter information sufficient to effect financial transfers to and from a funding account. The system deposits one or more small amounts into the funding account, and queries the user to enter the amount of each deposit. If the 20 amount(s) match, the account is considered verified.

Any user may initiate a send money transaction or a request payment transaction with any other entity provided that entity is able to receive an electronic message. For example, the receiving entity needs an ID or an e-mail address for an e-mail account to which an electronic message may be sent. The electronic message may 25 be an e-mail message, instant message or other electronic message.

A user, i.e., an entity such as an individual or corporation, that desires to send money to another entity can do so by accessing an existing online account associated with the user and initiating a send money transaction. The user sending money (payor) enters an amount of funds to be transferred and contact information such as a user ID or 30 an e-mail address of the recipient of the funds (payee). The payee may be an individual or other entity such as a corporation. The system sends an electronic message to the

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payee, for example, using an e-mail address if provided, indicating that the amount of funds has been "received" on the payee's behalf. To effect transfer of the funds, the payee must access the system, for example, by selecting a URL or other link provided in the electronic message, and direct the received funds to an online account. An existing
5 online account may be identified by the payee by providing information such as an account number and/or other identifying information such as a password. If the payee does not have an existing online account, the payee must sign up for an account and provide credit card information or information for a checking account or other bank account sufficient to effect electronic transfer of funds. Thereafter, the received funds can
10 be directed to the newly activated online account. At any point up to the time the received funds are deposited in the payee's online account, the payor can cancel the transaction. Any user may withdraw any or all of the balance in their online account(s) at any time by transferring funds to a credit card account or other bank account.

A request money, or request payment, transaction, e.g. sending a bill, may
15 also be initiated by a user (e.g., individual or corporation) that desires to receive payment from another entity. The user enters an amount of funds owed and contact information such as an e-mail address for the recipient of the payment request (payor). In the case of multiple payors, an amount and contact information (e.g., user IDs and/or an e-mail address) is necessary for each payor. The recipient of such a transaction request (payor)
20 may be an individual or another entity such as a merchant corporation. The system sends a payment request to the payor via an electronic message, for example via e-mail to a provided address, and the payor may respond by selecting a URL or other link provided in the electronic message. If the payor accepts the payment request, the payor identifies an online account from which to transfer funds to the payee (initiator of the payment
25 request). If the payor does not have an online account established, the payor must sign up for an online account and provide credit card information, or information for a checking account or other bank account sufficient to effect electronic transfer of funds, to fund the online account. Thereafter, the amount of funds are transferred to the payee and the system sends an e-mail notification or other electronic message to the payee indicating
30 that the funds have been "received" on the payee's behalf. To complete the transaction, the payee must direct the received funds to an online account, for example, by providing an online account number and/or other identifying information such as a password. The payor may cancel the transaction at any time until the payee directs the received funds to an online account.

According to an aspect of the invention, a computer implemented method is provided for initiating a transfer of funds from one online account to another in a computer network. The method typically includes receiving from a first user a request to establish an online account, receiving account access information for a bank account from

- 5 the first user, wherein once the bank account is verified the first user is able to transfer funds between the online account and the bank account, and verifying, using the account information, whether the first user has access to the bank account. If the bank account is verified, the method also typically includes the steps of receiving a transfer request from the first user, the transfer request including an amount of funds for transfer from the
- 10 online account associated with the first user and identification information for a recipient of the funds, the identification information including an electronic message address for the recipient, and automatically sending an electronic message to the recipient using the electronic message address, the electronic message indicating that funds are ready for transfer to the recipient.

- 15 According to another aspect of the present invention, the process of verifying the bank account typically includes causing a small deposit to be made to the banking account using the account access information, notifying the user that a deposit has been made to the banking account, requesting from the user identification of the amount of the deposit, receiving a response from the user identifying the amount of the
- 20 deposit, and verifying whether the amount identified in the response matches the amount deposited in the banking account, whereby the account is verified if a match occurs.

- 25 According to yet another aspect of the present invention, the process of verifying the bank account typically includes causing two or more small deposits to be made to the banking account using the account access information, notifying the user that the two or more deposits have been made to the banking account, requesting from the user identification of the amounts of each of the two or more deposits, receiving a response from the user identifying the amounts of each of the two or more deposits, and verifying whether the amounts identified in the response match the amounts deposited in the banking account, whereby the account is verified if a match occurs.

- 30 Reference to the remaining portions of the specification, including the drawings and claims, will realize other features and advantages of the present invention. Further features and advantages of the present invention, as well as the structure and operation of various embodiments of the present invention, are described in detail below

with respect to the accompanying drawings. In the drawings, like reference numbers indicate identical or functionally similar elements.

BRIEF DESCRIPTION OF THE DRAWINGS

- Figure 1 illustrates a general overview of an information retrieval and
5 communication network including a fund exchange server, client devices, and remote servers according to an embodiment of the present invention;

Figure 2 illustrates the process of conducting a send money transaction according to an embodiment of the present invention;

- Figure 3 illustrates an exemplary form for use during a send money
10 transaction according to an embodiment of the present invention;

Figure 4 illustrates the process of conducting a request money transaction according to an embodiment of the present invention;

Figure 5 illustrates an exemplary form for use during a request money transaction according to an embodiment of the present invention;

- 15 Figure 6 illustrates an exemplary form for use during a request money transaction involving multiple recipients according to an embodiment of the present invention;

Figure 7 illustrates an exemplary form for use with a “move money” transaction according to an embodiment of the invention;

- 20 Figure 8 is a flow diagram illustrating an account verification process according to an embodiment of the present invention;

Figure 9 illustrates an exemplary form for adding a funding account according to an embodiment of the present invention; and

- 25 Figure 10 illustrates an example of a form acknowledging that an account has been added according to an embodiment of the present invention.

DESCRIPTION OF THE SPECIFIC EMBODIMENTS

Figure 1 illustrates a general overview of an information retrieval and communication network 10 including a fund exchange server 20, client devices 30₁ to 30_N, and remote servers 50₁ to 50_N according to an embodiment of the present invention.

- 30 In computer network 10, clients 30₁ to 30_N are coupled through the Internet 40, or other communication network, to fund exchange server 20 and servers 50₁ to 50_N. Only one

fund exchange server 20 is shown, but it is understood that more than one fund exchange server can be used, either individually or in a distributed manner, and that other servers providing additional functionality may also be interconnected to any component shown in network 10 either directly, over a LAN or a WAN, or over the Internet.

- 5 Several elements in the system shown in Figure 1 are conventional, well-known elements that need not be explained in detail here. For example, each client device 30 could be a desktop personal computer, workstation, cellular telephone, personal digital assistant (PDA), laptop, or any other device capable of interfacing directly or indirectly with the Internet. Each client 30 typically runs a browsing program, such as
- 10 Microsoft's Internet Explorer, Netscape Navigator or the like, or a microbrowser such as a WAP enabled browser in the case of a cell phone, PDA or other handheld wireless devices, allowing a user of client 30 to browse pages and forms available to it from fund exchange server 20, servers 50₁ to 50_N or other servers over Internet 40. Each client device 30 also typically includes one or more user interface devices 32, such as a
- 15 keyboard, a mouse, touchscreen, pen or the like, for interacting with a graphical user interface (GUI) provided by the browser on a monitor screen, LCD display, etc., in conjunction with pages and forms provided by fund exchange server 20, servers 50₁ to 50_N or other servers. The present invention is suitable for use with the Internet, which refers to a specific global Internetwork of networks. However, it should be understood
- 20 that other networks can be used instead of the Internet, such as an intranet, an extranet, a virtual private network (VPN), a non-TCP/IP based network, any LAN or WAN or the like.

According to one embodiment as will be described in more detail below, fund exchange server 20 and any related components are operator configurable using an application including computer code run using a central processing unit such as an Intel Pentium processor or the like. Computer code for operating and configuring fund exchange server 20 as described herein is preferably stored on a hard disk, but the entire program code, or portions thereof, may also be stored in any other memory device such as a ROM or RAM, or provided on any media capable of storing program code, such as a compact disk medium, a floppy disk, or the like. Additionally, the entire program code, or portions thereof may be downloaded from a software source to fund exchange server 20 over the Internet as is well known, or transmitted over any other conventional network connection as is well known, e.g., extranet, VPN, LAN, etc., using any communication medium and protocols (e.g., TCP/IP, HTTP, HTTPS, Ethernet, etc.) as are well known.

Additionally, portions of the program code may be downloaded or provided to client device 30 and executed on client device 30.

- In general, a user accesses and queries fund exchange server 20, servers 50₁ to 50_N, and other servers through a client device 30 to view and download content such as news stories, advertising content, search query results including links to various websites and so on. Such content can also include other media objects such as video and audio clips, URL links, graphic and text objects such as icons and hyperlinks, forms, pages and the like. Additionally, such content is typically presented to the user as a web page formatted according to downloaded JavaScript code and HTML code and data as is well known. In general, any instance of Standard Generalized Markup Language (SGML), including XML, WML, HDML (for hand-held devices), DHTML, and others, may also be used. Users are able to communicably access fund exchange server 20, e.g., over the Internet 40, using a client device 30 and conduct transactions, open online accounts and monitor online account activity as will be described herein.

- 15 A user typically accesses fund exchange server 20 by selecting or entering a URL identifying the fund exchange server 20. One example of such a fund exchange server 20 is located at the URL <https://paydirect.yahoo.com>. When accessed, fund exchange server 20 preferably provides the user with one or more web pages including options for opening online accounts, account verification, accessing existing online 20 accounts, initiating transactions, responding to transaction requests, etc. If the user has already established an online account they may access an account page by providing an account number and security information such as a password and a security key. The account page preferably includes various status information of pending and past transactions, account balance(s), user preferences, etc., as well as options for initiating 25 various financial transactions. If the user does not have an established account, the user can select to open an account. The user can open an account by providing information such as an e-mail address, a password, mailing address and/or other information as may be necessary.

- In general, an “online account” is an online stored value account 30 representing an amount of funds held on the users behalf at an affiliate bank or other financial institution. A database 22 is provided for storing account information and data as is well known. To fund an account, the user must provide credit card information, e.g., credit card number, expiration date, etc, sufficient to effect a transfer of funds from a credit card account to the financial institution holding the user’s actual funded account.

- An ATM check card (e.g., including a Visa logo) may also be used for transfer of funds to and from a checking account. ACH transfers may also be used to transfer funds to and from the affiliate financial institution as are well known. As shown in Figure 1, each financial institution can be represented as one of servers 50 and a credit card company
- 5 can be represented as another one of servers 50. A connection may also be established between fund exchange server 20 and credit card server 50 or with financial institution server 50 or with an ACH network server. When a transaction has been completed, transaction information is communicated from fund exchange server 20 to the financial institution server 50, and the user's actual account is credited or debited accordingly.
- 10 When a user desires to fund an online account or withdraw funds from an online account, the financial institution server handles the actual fund transfers such as credit card debits and credits, ACH transfers and the like.

In one embodiment, an account verification procedure is used to verify that a user has access to an account identified as a "funding" account, e.g., an account to be used for transferring money to and from an online account. Funding accounts can include savings and checking accounts, credit card accounts and other financial accounts.

15 According to one embodiment, when a user signs up for an online account, or when they later wish to add a funding account, the user is prompted to enter account information sufficient to effect a transfer to and from the identified funding account. Such account

20 information includes the account number, routing number, password, PIN number, expiration date, etc. Fund exchange server 20 and/or financial institution server 50 communicates with a bank server associated with the identified funding account or with an ACH server, and one or more small deposits are made into the identified funding account. For example, in one embodiment, two small deposits ranging from \$0.01 to

25 \$1.00 are made into the funding account. The user is notified that the deposit(s) occurred, and the user is asked to enter the amount of each deposit. If the amount(s) submitted by the user match the amount(s) actually deposited, the user has demonstrated that they have access to the funding account and the funding account is thereafter considered verified.

Figure 8 is a flow diagram illustrating an account verification process

30 according to an embodiment of the present invention. At step 700 the user logs into fund exchange server 20, and at step 710 the user selects an option to link a bank account, such as a DDA, checking or savings account, as a funding account. At step 720, the user is prompted to enter the account information sufficient to effect a transfer to and from the identified funding account. In one embodiment, the user is provided with a form

including fields for entering the necessary account information. As one example, Figure 9 illustrates an exemplary form for adding a funding account, including fields for entering account information, according to an embodiment of the present invention. At step 730, the user is notified that funds may be transferred to the account, and in step 740, the user 5 is provided with instructions for verifying ownership of the identified funding account. Figure 10 illustrates an example of a form acknowledging that an account has been added and that funds will be transferred to the identified funding account according to an embodiment of the present invention.

At step 750, fund exchange server 20 causes funds to be transferred to the 10 identified funding account, for example, by either directly communicating with a financial institution server 50 associated with the identified funding account or with an ACH network server. In preferred aspects, two deposits, each in the range of \$0.01 and \$1.00 dollars are made to the identified account, although only one deposit or more than two may be made. Additionally, larger deposit amounts may also be made as desired. At 15 step 760, according to one embodiment, the user is notified that they need to verify the amount(s) transferred into the identified funding account. The notification can be via e-mail or displayed when the user next logs onto the system after the deposits have been made. At step 770, the user enters the amount(s), and if the entered amount(s) match with the actual deposit amount(s), the account is considered verified. At step 780, the user is 20 able to transfer funds to and from the identified, verified funding account.

According to one embodiment, various online financial transactions may be initiated using an established online account, including a “send money” transaction, a “request money” transaction and a “move money” transaction. In a “send money” transaction, one is able to send funds to an entity such as another individual or a 25 merchant; in a “request money” transaction, one is able to receive payment from another entity or entities, and in a “move money” transaction, one is able to transfer funds to and from a credit card account, ATM check card account, checking account, brokerage account, any other financial account, or another online account associated with the user.

Figure 2 illustrates process of conducting a “send money” transaction 30 according to an embodiment of the present invention. In this case, the initiator of the send money transaction is the “payor,” and the recipient of the transaction request is the “payee”. After the payor has selected the “send money” option, at step 100 the payor is prompted to enter an amount of funds for transfer and identification information for the recipient of the funds (payee). Identification information typically includes a name and

an e-mail address of the payee or other contact information such as a user ID for initiating an instant message (IM) session, and may also include an identity confirmation query. For example, in one embodiment as shown in Figure 3, the payor is presented with a form 200 including an amount field 210, a name field 220, an address field 230, message fields 240, an identity confirmation selection button 245 and a query field 250. The payor then enters the appropriate information in the fields. In a preferred embodiment, amount field 210 and e-mail address field 230 are required to be filled out, and the remaining fields are optional. If the payor selects to use the optionally provided identity confirmation feature, a query must also be input. The payee is later asked to confirm their identity by answering the query to the satisfaction of the payor as will be discussed in more detail below.

After the amount and identification information has been entered and submitted, e.g., by selecting continue button 260, at step 110 the system processes the information and sends an electronic message (e.g., e-mail notification or IM) to the recipient (payee) using the contact information provided by the payor. The electronic message typically includes a link (e.g., URL link or other selectable link) to a web page located on the fund exchange server 20. In one embodiment, the electronic message only alerts the payee that funds are ready to be transferred to the payee, however, the electronic message can include varying amounts of information such as the sender's name, the amount of funds ready for transfer, etc.

Upon selecting the link, a communication session is established between the payee (i.e., using client device 30) and the fund exchange server 20. The payee is provided with a web page or other online document that allows the payee to accept or reject the "send money" transaction. For example, in one embodiment, a form is provided with various fields and selection buttons. If the identity confirmation feature was selected by the payor, the payee is also presented with the identity confirmation query and a field for entering a response to the query. The payee must identify an account into which the funds are to be transferred, e.g., by providing an account number and password. If the payee does not have an account established, an account can be opened as described above. After all appropriate information has been entered and submitted by the payee, the system processes the received information at step 120. If the payee rejected the transaction, at step 125 the payor is notified of the rejection, e.g., by an e-mail notification message or by updating the payor's account page, and the transaction is canceled. If the payee has accepted the transaction, the system determines whether

identity confirmation is active for the current transaction in step 130. If the identity confirmation feature was not selected by the payor, in step 135 the funds are transferred from the payor's account to the account identified by the payee. If the identity confirmation feature was selected, in step 140 the payor is notified, preferably by an electronic message, that the payee has responded to the identity confirmation query. Preferably, the response is included in an electronic message along with a URL link to the system, however, the response can be posted to the payor's account page for review the next time the payor logs into the system.

- If the payor is satisfied with the information provided in the identity confirmation response, the payor responds to the system with a decision. For example, the payor may select an accept button or a reject button. At step 150, the system receives and processes the payor's decision. If the payor rejected the identity confirmation response, the transaction is canceled in step 155. If the payor accepted the response, in step 160 the funds are transferred from the payor's account to the account identified by the payee. The payor can cancel the transaction at any time until the funds are transferred to the payee's account.

Figure 4 illustrates the process of conducting a "request money" transaction according to an embodiment of the present invention. In this case, the initiator of the request money transaction is the "payee," and the recipient of the transaction request is the "payor". After the payee has selected the "request money" option from the account page, at step 300 the payee is prompted to enter an amount of funds for transfer and identification information for the recipient of the payment request (payor). Identification information typically includes a name and an e-mail address of the payor or other contact information such as a user ID for initiating an instant message (IM) session. For example, in one embodiment as shown in Figure 5, the payee is presented with a form 400 including an amount field 410, a name field 420, an address field 430, message fields 440, and an invoice field 450. The payee enters the appropriate information in the fields. In a preferred embodiment, amount field 410 and e-mail address field 430 are required to be filled out, and the remaining fields are optional.

After the amount and identification information has been entered and submitted, e.g., by selecting continue button 460, at step 310, the system processes the information and sends an electronic message (e.g., e-mail notification or IM) to the recipient (payor) using the contact information provided by the payee. The electronic message typically includes a link (e.g., URL link or other selectable link) to a web page

located on the fund exchange server 20. In one embodiment, the electronic message only alerts the recipient that a payment request, e.g., invoice or bill, has been received, however, the electronic message can include varying amounts of information such as the sender's name, the amount of funds desired to be transferred, etc.

- 5 Upon selecting the link, a communication session is established between the payor (i.e., using client device 30) and the fund exchange server 20. The payor is provided with a web page or other document that allows the payor to accept or reject the "request money" transaction. For example, in one embodiment, a form is provided with various fields and selection buttons. The payor must identify an account from which the
- 10 funds are to be transferred, e.g., by providing an account number and password. If the payor does not have an account established, an account can be opened and funded as described above. If the payor accepts the transaction they are provided with the ability to select the identity confirmation feature. If the identity confirmation feature is selected, the payor must enter a query. After all appropriate information has been entered and
- 15 submitted by the payor, the system processes the received information at step 320. If the payor rejected the transaction, in step 325 the payee is notified of the rejection, e.g., by an electronic message or by updating the payee's account page. If the payor has accepted the transaction, in step 330 the system notifies the payee, e.g., by sending an electronic to the payee indicating that the transaction has been accepted by the payor. In one
- 20 embodiment, the payor may select to accept the transaction in part, in which case the payor must enter the partial payment amount. The partial payment amount is also communicated to the payee, either in an electronic message indicating acceptance or by posting to the payee's account page. If the payor has selected the optional identity confirmation feature, the query is also communicated to the payee, either in an electronic
- 25 message indicating acceptance or by posting to the payee's account page. The electronic message also typically includes a link to a web page located on the fund exchange server 20.

Upon selecting the link, a communication session is established between the payee (e.g., using client device 30) and the fund exchange server 20. The payee is provided with a web page that allows the payee to direct the "received" funds to an online account. For example, in one embodiment, the payee is provided with an account page for an account associated with the payee. Alternately, or in addition, a form is provided with various fields and selection buttons. If the identity confirmation feature was selected by the payor, the payee is also presented with the identity confirmation query and a field

for entering a response to the query. The payee must identify an account into which the funds are to be transferred, e.g., by designating the account associated with the active account page, or by providing an account number and password for another account associated with the payee. If desired, the payee may open another account as described above.

- 5 After all appropriate information has been entered and submitted by the payee, the system processes the received information at step 340. The payee may also be provided with an option to cancel the transaction at this point. At step 350, the system determines whether identity confirmation is active for the current transaction. If the 10 identity confirmation feature was not selected by the payor, in step 355 the funds are transferred from the payor's account to the account identified by the payee. If the identity confirmation feature was selected, in step 360 the payor is notified, preferably by an electronic message, that the payee has responded to the identity confirmation query. Preferably, this response is included in an electronic message along with a URL link to 15 the system, however, the response can be posted to the payor's account page for review the next time the payor logs in to the system.

- If the payor is satisfied with the information provided in the identity confirmation response, the payor responds to the system with a decision. For example, the payor may select an accept button or a reject button. At step 370, the system receives 20 and processes the payor's decision. If the payor rejected the identity confirmation response, the transaction is canceled in step 375. If the payor accepted the response, in step 380 the funds are transferred from the payor's account to the account identified by the payee. The payor can cancel the transaction at any time until the funds are transferred to the payee's account.

- 25 In one embodiment, a multiple payor bill may be submitted as part of a "request money" transaction. Figure 6 illustrates an exemplary form 500 for use during a request money transaction involving multiple recipients (payors) according to an embodiment of the present invention. Form 500 preferably includes amount fields 510, name fields 520, address fields 530, message fields 540, and a selection field 550 for 30 selecting the number of recipients. The payee enters the appropriate information in the fields, submits the form, and the system thereafter submits transaction requests to each individual payor and conducts transaction processing individually as described above with reference to Figure 4.

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In a “move money” transaction, funds are transferred to and from an online account. According to one embodiment, funds may be withdrawn from an online account to a credit card account, an ATM check card account, checking account or other financial account (i.e., a funding account). According to another embodiment, funds may be transferred to an online account from a funding account, e.g., a credit card account, an ATM check card account, checking account or other financial account. In one embodiment, the funding account must be verified, e.g., using the account verification procedure discussed above. The financial institution server 50 effects the transfer of the actual funds with the appropriate account server, e.g., credit card server, ACH network server, bank server, etc. In another embodiment, funds may be transferred between online accounts associated with the user. For example, the user may have two or more separate online accounts or one or more online sub-accounts may be tied to a master online account. For sub-accounts, actual funds are debited or credited to an account at the financial institution associated only with the master account, such that when an online transaction involving a sub-account is completed actual funds may only be withdrawn from, or added to, the master account. Funds may be moved between the master account and a sub-account by the entity controlling the master account. Sub-accounts are useful for many applications, including, for example, allowing parents (controlling master account) to provide a monthly allowance to a child (sub-account) away at college or providing a limited spending account (sub-account) for an employee in charge of buying office supplies for a company (controlling master account).

To effect transfer between online accounts and between an online account and a credit card account, ATM check card account, checking account or other financial account, the user is preferably provided with a form with fields for entering the amount desired to be transferred, the account into which funds are to be transferred and the account from which funds are to be transferred. Figure 7 illustrates an exemplary form for use with a “move money” transaction according to an embodiment of the invention. As shown, form 600 preferably includes an amount field 610, an account field 620 from which funds are to be transferred and a second account field 630 into which funds are to be transferred. Other fields may be presented for other necessary information such as passwords, PIN numbers, expiration dates, routing numbers, etc. If a user has previously entered account information, the user is preferably able to select that account without having to re-enter the information. When filled out, the user submits the form and the system processes the information and moves the funds accordingly. For online account-

to-online account moves, the database 22 is updated, and for transfers to and from online accounts, financial institution server 50 is provided with the appropriate information so as to effect the actual transfer of funds to or from the credit card account, conduct ACH settlement, etc.

- 5 According to one embodiment, multiple affiliate banks are provided for conducting settlements, e.g., ACH settlements with other banks, check card transactions, transactions with credit card companies, etc. Referring to Figure 1, for example, one affiliate financial institution may be represented as server 50₁, and a second financial institution as server 50₂. In this embodiment, a user is preferably given an option to
10 choose an affiliate bank to conduct the settlements. For example, the different affiliate financial institutions may offer different fee schedules, award programs, etc. After a user selects an affiliate financial institution, that institution becomes the default until changed by the user. In one embodiment, both parties to a transaction (i.e., payor and payee) may identify the same or different affiliate financial institutions for conducting settlement for
15 the transaction. Additionally, different default affiliate banks may be selected by a user depending on the type of settlement. In preferred aspects, database 22 stores the affiliate bank preferences and other user preferences in relation to each online account. An affiliate bank may be associated with a funding account.

- According to another embodiment, a transaction limit is placed on an
20 online account until it has been established that the user is able to receive mail at a billing address, e.g., for a credit card or ATM check card. In this embodiment, the user is limited to sending or receiving no more than a certain amount, for example, \$200, until the user has verified that they are able to receive U.S. mail at the billing address. When the user signs up or registers with the system, a letter is sent to the billing address. The letter
25 includes a code, such as an alphanumeric code. After the letter and code have been received, the user can verify/confirm the physical billing address by entering the code when logging in to the system. Once the physical address has been confirmed, the transaction limit may be raised. In one embodiment, the transaction limit is automatically raised, for example, to the lesser of \$1000/month or the credit card limit, if credit card
30 information was entered. Alternatively, the transaction limit may be set by the user, within a specified maximum set by the system. It will also be appreciated that any transaction limit determining scheme may be used.

While the invention has been described by way of example and in terms of the specific embodiments, it is to be understood that the invention is not limited to the

disclosed embodiments. To the contrary, it is intended to cover various modifications and similar arrangements as would be apparent to those skilled in the art. Therefore, the scope of the appended claims should be accorded the broadest interpretation so as to encompass all such modifications and similar arrangements.

WHAT IS CLAIMED IS:

1. A computer implemented method of initiating a transfer of funds from one online account to another in a computer network, comprising:
 - receiving from a first user a request to establish an online account;
 - receiving account access information for a bank account from the first user, wherein once the bank account is verified the first user is able to transfer funds between the online account and the bank account;
 - verifying, using the account information, whether the first user has access to the bank account; and if verified
 - receiving a transfer request from the first user, the transfer request including an amount of funds for transfer from the online account associated with the first user and identification information for a recipient of the funds, the identification information including an electronic message address for the recipient; and
 - automatically sending an electronic message to the recipient using the electronic message address, the electronic message indicating that funds are ready for transfer to the recipient.
2. The computer implemented method of claim 1, further comprising the steps of:
 - receiving a response from the recipient accepting or rejecting the transfer of funds; and
 - transferring said amount of funds from the online account associated with the first user to a second online account associated with the recipient if the response indicates acceptance.
3. The computer implemented method of claim 1, wherein the bank account is one of a checking account and a savings account.
4. The computer implemented method of claim 1, wherein the step of verifying comprises the steps of:

causing a small deposit to be made to the bank account using the account access information;

notifying the first user that a deposit has been made to the bank account;
requesting from the first user identification of the amount of the deposit;
receiving a response from the first user identifying the amount of the

deposit; and

verifying whether the amount identified in the response matches the amount deposited in the bank account, whereby the bank account is verified if a match occurs.

5. The computer implemented method of claim 4, wherein the small deposit has a value of between 0.01 dollars and 1.00 dollar, inclusive.

6. The computer implemented method of claim 2, wherein the account access information and the response are received from the user over the Internet.

7. The computer implemented method of claim 1, further including the step of transferring funds from the banking account to the online account associated with the first user in response to a request to transfer funds if the bank account is verified.

8. The computer implemented method of claim 1, further including the step of transferring funds from the online account associated with the first user to the bank account in response to a request to transfer funds if the banking account is verified.

9. The computer implemented method of claim 1, wherein the step of verifying comprises the steps of:

causing two or more small deposits to the banking account using the account access information;

notifying the user that the two or more deposits have been made to the banking account;

requesting from the user identification of the amounts of each of the two or more deposits;

receiving a response from the user identifying the amounts of each of the two or more deposits;

verifying whether the amounts identified in the response match the amounts deposited in the banking account, whereby the account is verified if a match occurs.

10. The computer implemented method of claim 9, wherein each of the small deposits has a value of between 0.01 dollars and 1.00 dollar, inclusive.

11. The computer implemented method of claim 1, wherein the account access information is received from the first user over the Internet.

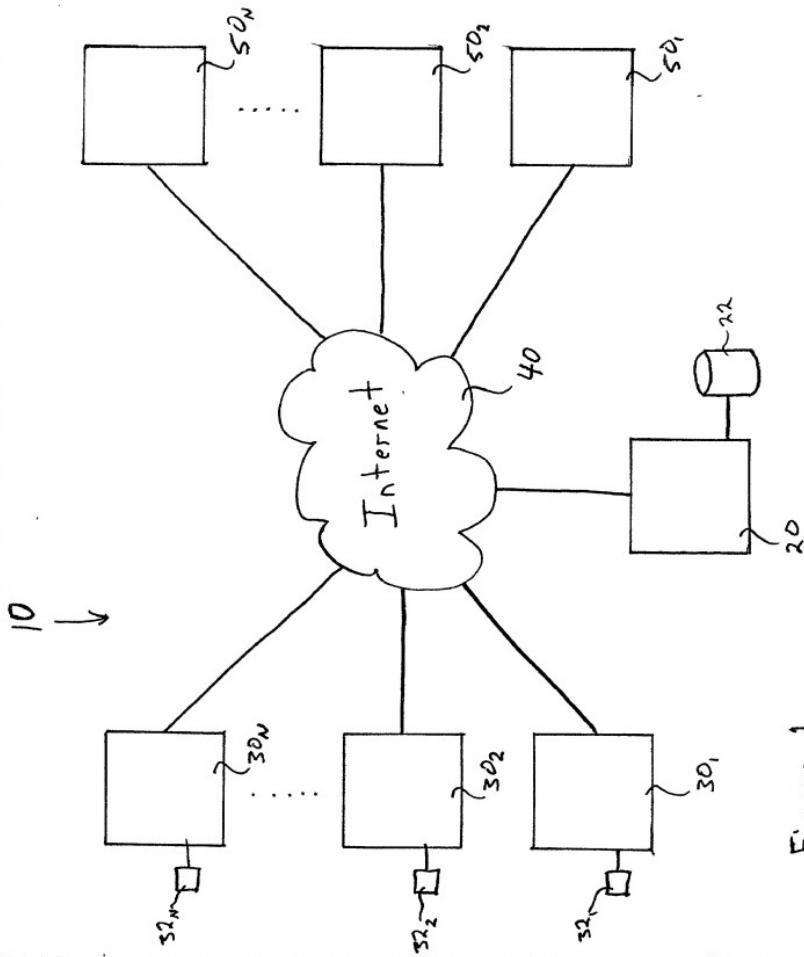
12. The computer implemented method of claim 1, wherein the account access information includes an account number.

**SYSTEMS AND METHODS FOR IMPLEMENTING PERSON-TO-PERSON
MONEY EXCHANGE**

ABSTRACT OF THE DISCLOSURE

Systems and methods for effecting online financial transactions between individuals or between individuals and entities such as banks, merchants and other companies. Each user accesses a fund exchange server to establish an online account, which is used to transfer funds to and from other entities' online accounts. To fund an online account, funds can be transferred to the online account from a funding account, e.g., credit card account, checking or savings account, or other account, or from another online account. To withdraw funds, money can be transferred to a funding account. A verification procedure requires that a user enter information sufficient to effect financial transfers to and from a funding account. The system deposits one or more small amounts into the funding account, and queries the user to enter the amount of each deposit. If the amount(s) match, the account is considered verified.

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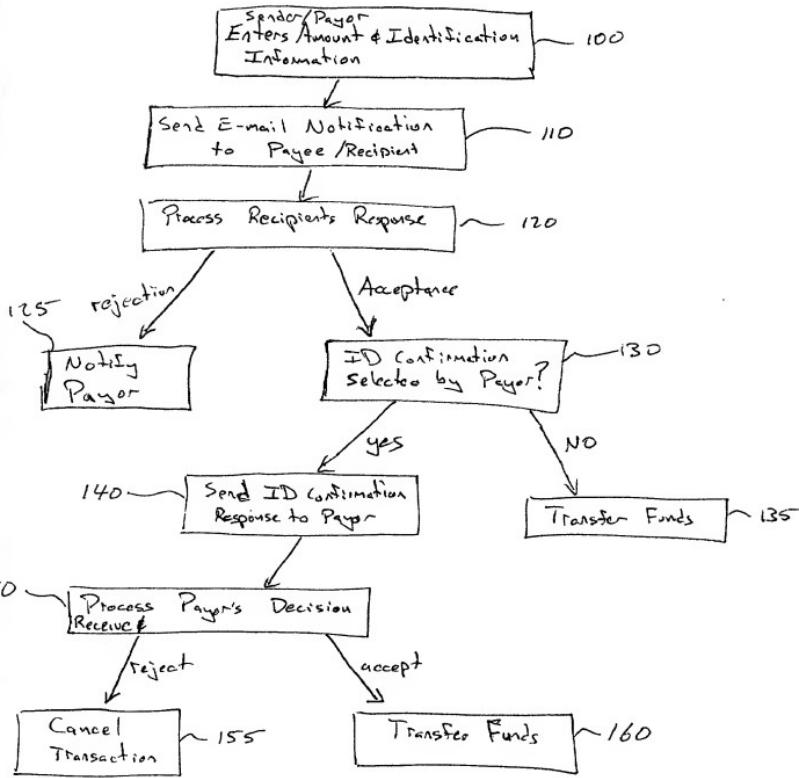


Figure 2

Welcome,
Yahoo! - PayDirect

[Edit Wallet](#) - [Options](#) - [Sign Out](#)

Send money - Fill out the information below and click "Continue".

200

Recipient's name: [] ~ 220

Recipient's email: [] ~ 230

Message title: (optional) [] ~ 240

Message: (optional) []

Would you like to use identity confirmation? (optional) yes no what's identity confirmation? 3 ~ 245

If yes, please specify a question: [] ~ 250

Amount to send: [] ~ 210

Pay using account: PayDirect:

260 —

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Figure 3

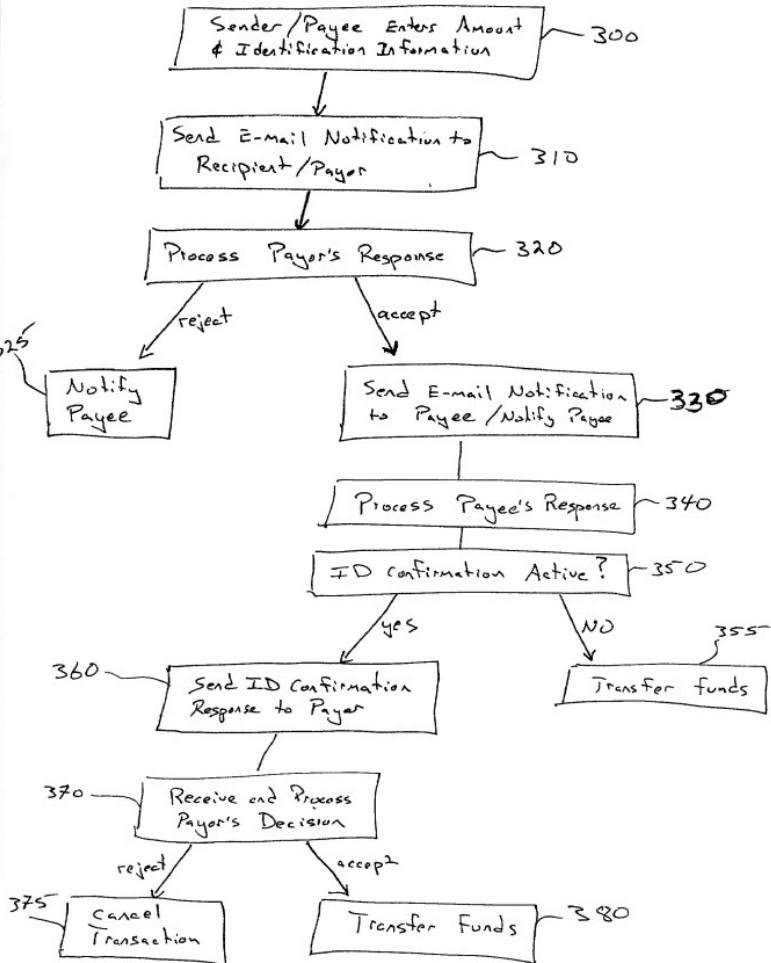


Figure 4

Welcome,

Yahoo! - PayDirect

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Request money - Fill out the information below and click "Continue". For a more detailed bill with multiple line items, tax, shipping, click on "add detail" below.

460 ~ 450
Invoice #: (optional) ~ 450

Recipient's name: ~ 420

Recipient's email: ~ 430

Message title: (optional) ~ 440

Message: (optional)

Amount: \$ 0.00 ~ 410

460 ~

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Figure 5

Welcome,
Yahoo! - PayDirect

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Group billing - Fill out the information below and click "Continue".

500

Message title: 540

Message:

Recipient name	Recipient email	Amount
<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>

520 }
Use 5 recipients 550 530 510

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To learn more about how we use your information, see our [Privacy Policy](#)

Document #220250

Figure 6

Welcome,
Yahoo! - PayDirect

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Move money - Select the amount you'd like to move and the accounts you want to use.

Move \$ ~ 610 600
from ~ 620
to ~ 630

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Figure 7

Figure 8: Bank Account Verification Process

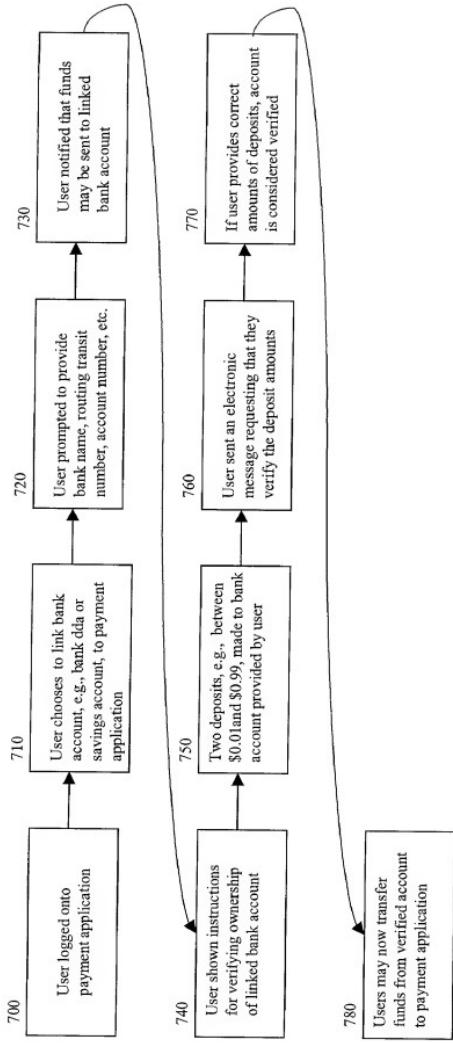


Figure 9: Linking a dda or savings account to the payment application

YAHOO! PayDirect

Welcome, twoimitts70

Yahoo! PayDirect Current Balance = \$10.00

My Account [Edit](#) [Add Bank Account](#)

Checking Account Savings Account

Requests for money

Money to accept

Pending transactions

Transaction history

Actions

[Move money](#)
[Send money](#)
[Request money](#)
[Group billing](#)
[View limits](#)
[Close account](#)

Security

[Security Information](#)
[PayDirect Terms of Service](#)
[Privacy Policy](#)
[What is a Security Key?](#)

Getting Started

[How it works](#)
[PayDirect Help](#)

Powered by Amicus
from CIBC National Bank

[PayDirect Options](#) [Payment Tools](#) [Sign Out](#)

ABA (Routing) Number
(9 digits)

Account Number
Name as it appears on Check
Street Address 1
Address 2
City
State
Zip Code
Phone Number

Figure 10: acknowledgement of account linkage

Figure 10 displays a screenshot of a web-based application interface for managing accounts. The main menu at the top includes 'File', 'Edit', 'View', 'Accounts', 'Bank', 'Transactions', 'Actions', 'Security', and 'Help'. The 'Accounts' menu is currently selected.

The left sidebar contains a navigation tree:

- MY ACCOUNT**
 - Bank
 - Overview
 - Requests for money
 - Money to accept!
- Pending transactions
- Transaction history
- Actions**
 - Move money
 - Send money
 - Request money
 - Group billing
 - View limits
- Close account
- Security**
 - Security Information
 - PayDirect Terms of Service
 - Privacy Policy
 - What is a Security Key?
- Getting Started**
 - How it works
 - PayDirect Help

The main content area shows a confirmation message:

The new account has been added

You can now move money into this account from PayDirect.

In order to move money from this account to your PayDirect account, you must confirm that you control the account. We will make two deposits between \$0.01 and \$0.99 to account. During a future login session, you will need to correctly enter the amount of these two small deposits.

Thank you for using Yahoo! PayDirect.

What else can I do with Yahoo! PayDirect?

- Move money
 - Move money from one account to another
 - Send money
 - Send money via email
 - Request money
 - Request money owed to you or send a bill.
 - Group Billing
 - Request money from multiple people.

[Return to Yahoo! PayDirect Overview](#)

DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I declare that:

My residence, post office address and citizenship are as stated below next to my name; I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural inventors are named below) of the subject matter which is claimed and for which a patent is sought on the invention entitled: **SYSTEMS AND METHODS FOR IMPLEMENTING PERSON-TO-PERSON MONEY EXCHANGE** the specification of which X is attached hereto or _____ was filed on October 30, 2000 as Application No. _____ and was amended on _____ (if applicable).

I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above. I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, Section 1.56. I claim foreign priority benefits under Title 35, United States Code, Section 119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed.

I claim the benefit under Title 35, United States Code, Section 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, Section 112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, Section 1.56 which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

Application No.	Date of Filing	Status
09/639,014	August 15, 2000	Pending

POWER OF ATTORNEY: As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith.

Gerald T. Gray, Reg. No. 41,797

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Post Office Address:	Post Office Address: 1571 Winding Way	City: Belmont	State/Country: California
Postal Code: 94002			

I further declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Signature of Inventor 1 Paul Gallagher Date	Signature of Inventor 2 Steve Davis Date	Signature of Inventor 3 Ivan Liu Date
Signature of Inventor 4 Martin Hampton Date		

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